

## Lesson 4.3, continued

7.  $(x-4)(x-5)$  8.  $(x-3)(x+6)$   
 9.  $(x-3)(x+3)$  10.  $(x+4)(x+4)$   
 11.  $(x-4)(x-7)$  12. cannot factor  
 13.  $(x-4)(x+8)$  14.  $(x-5)(x+2)$   
 15.  $(x-5)(x+5)$  16.  $(x-7)(x-2)$   
 17.  $(x-10)(x+10)$  18. cannot factor  
 19. -3, 2 20. -5, 2 21. 2, 3 22. 2  
 23. -4, -3 24. -4, 7 25. -6, 6  
 26. -3, 5 27. 2, 9 28. -4, 4 29. 1, 6  
 30. 1, 8 31. -5, -3 32. 4, 8 33. -5, 7  
 34. -5, 6 35. -9, -1 36. 6, 0 37. 3, 9  
 38. -3, 3 39. -8 40. 3 ft 41. 10 ft

### Practice Level C

1.  $(x-3)(x+4)$  2.  $(x+1)(x+2)$   
 3.  $(x-7)(x-5)$  4. cannot factor  
 5.  $(x+3)(x+3)$  6.  $(x-6)(x+3)$   
 7.  $(x-4)(x+6)$  8.  $(x-12)(x+11)$   
 9.  $(x-13)(x+13)$  10.  $(x-15)(x-9)$   
 11.  $(x+7)(x+14)$  12. cannot factor  
 13. 2, 8 14. -11 15. -9, 8 16. -15, 12  
 17. 9, 11 18. -14 19. -7, 3 20. 6, 7  
 21. -5, 4 22. -2, 5 23. 3, 6 24. -1, 1  
 25. -3, -1 26. 4, 6 27. -8 28. 1, 12  
 29. -7, -1 30. 0, 11 31. -7, 11 32. -15, 0  
 33. -17, 17 34.  $(x-3)(x+3)(x^2+9)$   
 35.  $4x(x-5)(x+5)$  36.  $(2x-3)(x+4)$   
 37. \$340 38. 45 mi/h

### Study Guide

1.  $(y+4)(y-1)$  2.  $(j-5)(j-6)$   
 3. cannot be factored 4. cannot be factored  
 5.  $(d+7)^2$  6.  $(5a+k)(5a-k)$  7. -9 and 9  
 8. -2 and 1 9. -3 10. The new dimensions are 6 ft by 8 ft. 11. -10 and 10

### Problem Solving Workshop:

#### Worked Out Example

1. 11 ft, 8 ft 2. about 30 ft 3. 60; 240 ft by 180 ft 4. about 87°F

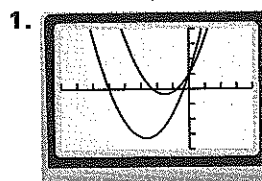
### Challenge Practice

1. Sample answer:  $c = 9$ ,  $(x+3)(x+3)$ ;  $c = 8$ ,  $(x+4)(x+2)$

2. Sample answer:  $c = 20$ ,  $(x+4)(x+5)$ ;  $c = -10$ ,  $(x+10)(x-1)$   
 3. Sample answer:  $c = 3$ ,  $(x-3)(x-1)$ ;  $c = 4$ ,  $(x-2)(x-2)$   
 4. Sample answer:  $c = 16$ ,  $(x-8)(x-2)$ ;  $c = 25$ ,  $(x-5)(x-5)$  5. -5, 4  
 6. -3, 1 7. -6, 1 8. -8, 1 9. -3, 1  
 10. -1, 10 11. 7 ft

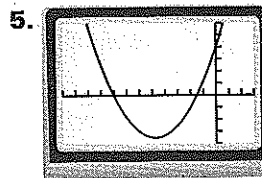
## Lesson 4.4

### Teaching Guide



The graphs are different

2.  $3x^2$ ; they are the same. 3. 5; they are the same. 4.  $16x$ ; they are different.



$2x^2$ ; they are the same.

24; they are the same.

$19x$ ; they are the same.

6. The trinomial and product of binomials in Question 1 are different. The trinomial and product of binomials in Question 5 are equivalent.

### Practice Level A

1.  $(2x+1)(x+2)$  2.  $(2x+1)(x+1)$   
 3.  $(3x-1)(x+2)$  4.  $(2x-1)(x-1)$   
 5.  $2(2x-1)(x+1)$  6.  $(3x+1)(2x-3)$   
 7.  $(5x-4)(x+1)$  8.  $3(3x+2)(x-1)$   
 9.  $(4x+1)(x+3)$  10.  $2(3x-2)(x+1)$   
 11.  $(2x+3)(2x-3)$  12.  $4(x-1)(x+1)$   
 13.  $2(x-2)(x-3)$  14.  $3(x+1)(x-4)$   
 15.  $3(3x-1)(3x+1)$  16.  $4(2x+1)(x-3)$   
 17.  $2(2x+3)(2x+3)$  18.  $5(3x+2)(2x-1)$   
 19.  $\frac{1}{2}$ , 1 20.  $-\frac{3}{2}$ , -1 21.  $\frac{1}{2}$ ,  $\frac{2}{3}$  22.  $-\frac{1}{3}$ , 3  
 23.  $\frac{3}{4}$ , 1 24.  $-\frac{3}{2}$ ,  $\frac{5}{2}$  25. -2, 3 26.  $-\frac{1}{2}$ , 3